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FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. PF596PIN 1552 10/602,727 06/25/2003 Craig A. Rosen EXAMINER 22195 7590 03/07/2006 **HUMAN GENOME SCIENCES INC** DUFFY, PATRICIA ANN INTELLECTUAL PROPERTY DEPT. ART UNIT PAPER NUMBER 14200 SHADY GROVE ROAD ROCKVILLE, MD 20850 1645

DATE MAILED: 03/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/602,727	ROSEN ET AL.
		Examiner	Art Unit
		Patricia A. Duffy	1645
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status			
1)	Responsive to communication(s) filed on		
•		is action is non-final.	
3)□	Since this application is in condition for allow	ance except for formal matters, p	rosecution as to the merits is
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims			
4)🖂	1) Claim(s) <u>1-96</u> is/are pending in the application.		
	4a) Of the above claim(s) is/are withdrawn from consideration.		
•	5) Claim(s) is/are allowed.		
6)□	S) Claim(s) is/are rejected.		
7)	7) Claim(s) is/are objected to.		
8) Claim(s) <u>1-96</u> are subject to restriction and/or election requirement.			
Application Papers			
9) ☐ The specification is objected to by the Examiner.			
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:			
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 		
3. Copies of the certified copies of the priority documents have been received in Application No			
application from the International Bureau (PCT Rule 17.2(a)).			
* See the attached detailed Office action for a list of the certified copies not received.			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)			
Paper No(s)/Mail Date 6) Other:			

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-21, 33-55, 67-75, 95 and 96 drawn to antibodies and kits, classified in class 530, subclass 387.9.
- II. Claims 22-32, 56-66 and 76-94, drawn to methods of treatment using antibodies, classified in class 424, subclass 150.1.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the antibodies can be used to purify the cognate antigen using classical immunoaffinity techniques or could be used to detect the exotoxin producing *B. anthracis in vitro* in a petri dish.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species:

Group I -

Applicant is required to elect a single combination of Specie A (a combination of VH and VL domains) and Specie B (antibody function) for examination.

Specie A - a combination of a VH domain of SEQ ID NOS:48-56 and a VL domain of SEQ ID NOS:48-56.

Specie B - 1 - inhibition of binding to anthrax receptor; 2 - inhibition of binding of PA to capillary morphogenesis protein; 3 - inhibition of cleavage of PA; 4 - inhibition of heptamerization of PA63; 5 - inhibition of PA63 binding to edema factor; 6 - inhibition of PA63 binding to lethal factor; 7 - inhibition of PA-mediated translocation of EF across a cell membrane; and 8 - inhibition of PA-mediated translocation of LF across a cell membrane.

Group II -

Applicant is required to elect a single combination of Specie A (a combination of VH and VL domains) and Specie B (antibody function) for examination and Specie C (second agent) for examination.

Specie A - a combination of a VH domain of SEQ ID NOS:48-56 and a VL domain of SEQ ID NOS:48-56.

Specie B - 1 - inhibition of binding to anthrax receptor; 2 - inhibition of binding of PA to capillary morphogenesis protein; 3 - inhibition of cleavage of PA; 4 - inhibition of heptamerization of PA63; 5 - inhibition of PA63 binding to edema factor; 6 - inhibition of PA63 binding to lethal factor; 7 - inhibition of PA-mediated translocation of EF across a cell membrane; and 8 - inhibition of PA-mediated translocation of LF across a cell membrane.

Specie C - soluble form of the anthrax receptor, soluble form of the CMG2 receptor, anti-anthrax receptor antibody, anti-EF antibody, anti-LF antibody, anthrax

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vaccine, polyvalent form of the P1 peptide, ciprofloxacin, doxycycline, penicillin G procaine, amoxicillian, ofloxacin, levofloxacin, protease inhibitor, anti-TNF alpha antibody and an anti-IL1 beta antibody.

The species are independent or distinct because they lack the same function and a common core structure as essential to the disclosed utility. A search for one function will not reveal art on the other functions.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

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In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions

unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia A. Duffy whose telephone number is 571-272-0855. The examiner can normally be reached on M-Th 6:30 pm - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Smith Lynette can be reached on 571-272-0864. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

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